

## AMENDMENTS TO THE CLAIMS:

1-17. (canceled)

18. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising 20 contiguous nucleotides of SEQ ID NO:1, wherein the 20 contiguous nucleotides include position 64331 of SEQ ID NO:1; and
- (b) a nucleotide sequence which is entirely complementary to (a).

19. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising 20 contiguous nucleotides of SEQ ID NO:1, wherein the 20 contiguous nucleotides include position 64331 of SEQ ID NO:1, and further wherein position 64331 of SEQ ID NO:1 is 'G'; and
- (b) a nucleotide sequence which is entirely complementary to (a).

20. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising 20 contiguous nucleotides of SEQ ID NO:1, wherein the 20 contiguous nucleotides include position 306382 of SEQ ID NO:1; and
- (b) a nucleotide sequence which is entirely complementary to (a).

21. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising 20 contiguous nucleotides of SEQ ID NO:1, wherein the 20 contiguous nucleotides include position 306382 of SEQ ID NO:1, and further wherein position 306382 of SEQ ID NO:1 is 'G'; and
- (b) a nucleotide sequence which is entirely complementary to (a).

22. (new) An isolated cDNA or transcript molecule comprising a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising nucleotides 306168-306503 of SEQ ID NO:1;

and

- (b) a nucleotide sequence which is entirely complementary to (a).

23. (new) An isolated cDNA or transcript molecule comprising a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising nucleotides 306168-306503 of SEQ ID NO:1, wherein position 306382 of SEQ ID NO:1 is 'G'; and

- (b) a nucleotide sequence which is entirely complementary to (a).

24. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising contiguous nucleotides of SEQ ID NO:1, wherein the contiguous nucleotides include both position 64331 of SEQ ID NO:1 and position 306382 of SEQ ID NO:1, and wherein position 64331 is 'A' and position 306382 is 'G'; and

- (b) a nucleotide sequence which is entirely complementary to (a).

25. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising contiguous nucleotides of SEQ ID NO:1, wherein the contiguous nucleotides include both position 64331 of SEQ ID NO:1 and position 306382 of SEQ ID NO:1, and wherein position 64331 is 'A' and position 306382 is 'C'; and

- (b) a nucleotide sequence which is entirely complementary to (a).

26. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising contiguous nucleotides of SEQ ID NO:1, wherein the contiguous nucleotides include both position 64331 of SEQ ID NO:1 and position 306382 of SEQ ID NO:1, and wherein position 64331 is 'G' and position 306382 is 'G'; and

- (b) a nucleotide sequence which is entirely complementary to (a).

27. (new) An isolated polynucleotide consisting of a segment of SEQ ID NO:1, wherein the segment comprises a nucleotide sequence selected from the group consisting of:

- (a) a nucleotide sequence comprising contiguous nucleotides of SEQ ID NO:1, wherein the contiguous nucleotides include both position 64331 of SEQ ID NO:1 and position 306382 of SEQ ID NO:1, and wherein position 64331 is 'G' and position 306382 is 'C'; and

- (b) a nucleotide sequence which is entirely complementary to (a).

28. (new) The polynucleotide of claim 18, which is a SNP detection reagent.

29. (new) The polynucleotide of claim 19, which is a SNP detection reagent.

30. (new) The polynucleotide of claim 20, which is a SNP detection reagent.

31. (new) The polynucleotide of claim 21, which is a SNP detection reagent.

32. (new) The detection reagent of claim 28, wherein the SNP detection reagent is selected from the group consisting of probes, primers, allele-specific probes, allele-specific primers, detectably-labeled probes, and detectably-labeled primers.

33. (new) The detection reagent of claim 29, wherein the SNP detection reagent is selected from the group consisting of probes, primers, allele-specific probes, allele-specific primers, detectably-labeled probes, and detectably-labeled primers.

34. (new) The detection reagent of claim 30, wherein the SNP detection reagent is selected from the group consisting of probes, primers, allele-specific probes, allele-specific primers, detectably-labeled probes, and detectably-labeled primers.

35. (new) The detection reagent of claim 31, wherein the SNP detection reagent is selected from the group consisting of probes, primers, allele-specific probes, allele-specific primers, detectably-labeled probes, and detectably-labeled primers.